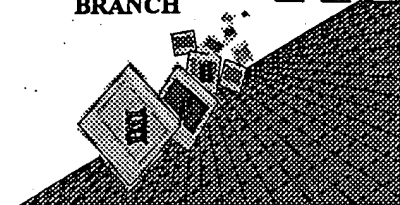


0280

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/458,813

Art Unit / Team No. :

OIPE

Date Processed by STIC:

12/30/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/458,813

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/458,813DATE: 12/30/1999
TIME: 14:42:54

Input Set: I458813.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed
7/2-3

1 <110> APPLICANT: Murphy, Brian R.
2 Collins, Peter L.
3 Durbin, Anna P.
4 Skiadopoulos, Mario H.
5 Tao, Tao
6 <120> TITLE OF INVENTION: USE OF RECOMBINANT LIVE-ATTENUATED PARAINFLUENZA VIRUS
7 (PIV) AS A VECTOR TO PROTECT AGAINST DISEASE CAUSED BY
8 PIV AND RESPIRATORY SYNCYTIAL VIRUS (RSV)
9 <130> FILE REFERENCE: 17634-000330
10 <140> CURRENT APPLICATION NUMBER: US/09/458,813
11 <141> CURRENT FILING DATE: 1999-12-10
12 <150> EARLIER APPLICATION NUMBER: 09/083,793
13 <151> EARLIER FILING DATE: 1998-05-22
14 <150> EARLIER APPLICATION NUMBER: 60/047,575
15 <151> EARLIER FILING DATE: 1997-05-23
16 <150> EARLIER APPLICATION NUMBER: 60/059,385
17 <151> EARLIER FILING DATE: 1997-09-19
18 <160> NUMBER OF SEQ ID NOS: 30
19 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO 1
21 <211> LENGTH: 42
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
26 insert to conform inserted sequence to rule of
27 six.
28 <400> SEQUENCE: 1
29 cttagaata tacaaataag aaaaacttag gattaaagag cg 42
30 <210> SEQ ID NO 2
31 <211> LENGTH: 36
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
36 insert to conform inserted sequence to rule of
37 six.
38 <400> SEQUENCE: 2
39 gatccaacaa agaaacgaca ccgaacaaac cttaag 36
40 <210> SEQ ID NO 3
41 <211> LENGTH: 101
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/458,813DATE: 12/30/1999
TIME: 14:42:54

Input Set: I458813.RAW

45 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
46 insert to conform inserted sequence to rule of
47 six.
48 <400> SEQUENCE: 3
49 aggcctaaaa gggaaatata aaaaacttag gagtaaagtt acgcaatcca actctactca 60
50 tataattgag gaaggaccca atagacaaat ccaaattcga g 101
51 <210> SEQ ID NO 4
52 <211> LENGTH: 79
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
57 insert to conform inserted sequence to rule of
58 six.
59 <400> SEQUENCE: 4
60 tcataattaa ccataatatg catcaatcta tctataatac aagtatatga taagtaatca 60
61 gcaatcagac aataggcct 79
62 <210> SEQ ID NO 5
63 <211> LENGTH: 69
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
68 insert to conform inserted sequence to rule of
69 six.
70 <400> SEQUENCE: 5 *see item 10 on Enr summary sheet*
71 nnnaggaaaa gggaaatata aaaacttagg agtaaagtta cgcgtgttaa cttcgaagag 60
72 ctccttann 69
73 <210> SEQ ID NO 6
74 <211> LENGTH: 44
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
79 insert to conform inserted sequence to rule of
80 six.
81 <400> SEQUENCE: 6 *item 10*
82 nnnaggaaaa gggaacgcgt gttaacttcg aagagctccc tnnn 44
83 <210> SEQ ID NO 7
84 <211> LENGTH: 6
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
89 insert to conform inserted sequence to rule of
90 six.
91 <400> SEQUENCE: 7
92 ctaaat 6
93 <210> SEQ ID NO 8
94 <211> LENGTH: 6

W-->

W-->

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PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/458,813

DATE: 12/30/1999
TIME: 14:42:54

Input Set: I458813.RAW

95 <212> TYPE: DNA
 96 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 99 insert to conform inserted sequence to rule of
 100 six.
 101 <400> SEQUENCE: 8
 102 cttaag 6
 103 <210> SEQ ID NO 9
 104 <211> LENGTH: 6
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Artificial Sequence
 107 <220> FEATURE:
 108 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 109 insert to conform inserted sequence to rule of
 110 six.
 111 <400> SEQUENCE: 9
 112 tcaatc 6
 113 <210> SEQ ID NO 10
 114 <211> LENGTH: 28
 115 <212> TYPE: DNA
 116 <213> ORGANISM: Artificial Sequence
 117 <220> FEATURE:
 118 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 119 insert to conform inserted sequence to rule of
 120 six.
 121 <400> SEQUENCE: 10
 122 acaacgagac cggataaatg ccttctac 28
 123 <210> SEQ ID NO 11
 124 <211> LENGTH: 67
 125 <212> TYPE: DNA
 126 <213> ORGANISM: Artificial Sequence
 127 <220> FEATURE:
 128 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 129 insert to conform inserted sequence to rule of
 130 six.
 131 <400> SEQUENCE: 11
 132 attattgctt aaggtttggtt cgggtgcggtt tctttggttg atcctatctg cgattgggtc 60
 133 catcttc 67
 134 <210> SEQ ID NO 12
 135 <211> LENGTH: 34
 136 <212> TYPE: DNA
 137 <213> ORGANISM: Artificial Sequence
 138 <220> FEATURE:
 139 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 140 insert to conform inserted sequence to rule of
 141 six.
 142 <400> SEQUENCE: 12
 143 agacaatntc ntndrmrvsa gtntcntndn ntag 34
 144 <210> SEQ ID NO 13

W-->

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/458,813DATE: 12/30/1999
TIME: 14:42:54

Input Set: I458813.RAW

145 <211> LENGTH: 6
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
150 insert to conform inserted sequence to rule of
151 six.
152 <400> SEQUENCE: 13
153 aggcct 6
154 <210> SEQ ID NO 14
155 <211> LENGTH: 55
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
160 insert to conform inserted sequence to rule of
161 six.
162 <400> SEQUENCE: 14
163 gacaataggc ctaaaaggga aatataaaaa acttaggagt aaagttacgc aatcc 55
164 <210> SEQ ID NO 15
165 <211> LENGTH: 68
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
170 insert to conform inserted sequence to rule of
171 six.
172 <400> SEQUENCE: 15
173 gtagaacgcg tttatccggt ctcgttggtg tgacatctcg aatttggatt tgtctattgg 60
174 gtccttcc 68
175 <210> SEQ ID NO 16
176 <211> LENGTH: 68
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
181 insert to conform inserted sequence to rule of
182 six.
183 <400> SEQUENCE: 16
184 gtagaacgcg tttatccggt ctcgttggtg tgacatctcg aatttggatt tgtctattgg 60
185 gtccttcc 68
186 <210> SEQ ID NO 17
187 <211> LENGTH: 28
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
192 insert to conform inserted sequence to rule of
193 six.
194 <400> SEQUENCE: 17

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/458,813

DATE: 12/30/1999

TIME: 14:42:54

Input Set: I458813.RAW

```
195      ccatgtaatt gaatcccca acactagc      28
196 <210> SEQ ID NO 18
197 <211> LENGTH: 28
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
202      insert to conform inserted sequence to rule of
203      six.
204 <400> SEQUENCE: 18
205      cggataaacg cggtctacaa agataacc      28
206 <210> SEQ ID NO 19
207 <211> LENGTH: 28
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
212      insert to conform inserted sequence to rule of
213      six.
214 <400> SEQUENCE: 19
215      cggataaacg cggtctacaa agataacc      28
216 <210> SEQ ID NO 20
217 <211> LENGTH: 23
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
222      insert to conform inserted sequence to rule of
223      six.
224 <400> SEQUENCE: 20
225      gggccatgga agattacagc aat      23
226 <210> SEQ ID NO 21
227 <211> LENGTH: 25
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
232      insert to conform inserted sequence to rule of
233      six.
234 <400> SEQUENCE: 21
235      caataagctt aaagcattag ttccc      25
236 <210> SEQ ID NO 22
237 <211> LENGTH: 31
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
242      insert to conform inserted sequence to rule of
243      six.
244 <400> SEQUENCE: 22
```

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/458,813

DATE: 12/30/1999
TIME: 14:42:54

Input Set: I458813.RAW

Line	? Error/Warning	Original Text
71	W "N" or "Xaa" used: Feature required	nnnaggaaaaa gggaaatata aaaacttagg agtaaagt
72	W "N" or "Xaa" used: Feature required	ctccctnnn
82	W "N" or "Xaa" used: Feature required	nnnaggaaaaa gggaacgcgt gttaacttcg aagagctc
143	W "N" or "Xaa" used: Feature required	agacaatntc ntndrmrvsa gtntcntndn ntag